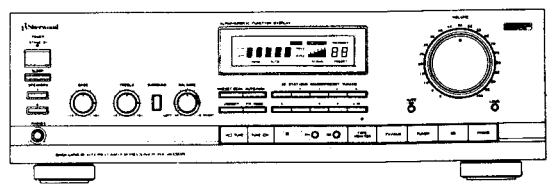
OPERATING INSTRUCTIONS
BEDIENUNG SANLEITUNG



RX-4030R

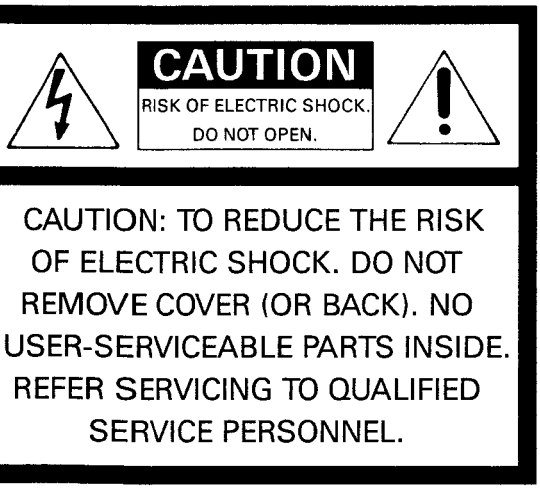
Stereo AM/FM Receiver
Stereo-AM/FM-Receiver

Sherwood

Unpacking and Installation

Congratulations on Your Purchase!

Your new high fidelity Receiver is designed to deliver maximum enjoyment and years of trouble free service. Please take a few moments to read this manual thoroughly. It will explain the features and operation of your Receiver and help insure a trouble free installation.
Please unpack your Receiver carefully. We recommend that you save the carton and packing material. They will be helpful should you ever need to move your unit and may be required if you ever need to return it for service. Your Receiver is designed to be placed in a horizontal position and it is important to allow at least two inches of space behind your unit for adequate ventilation and cabling convenience.
To avoid early damage, never place the unit near radiators, in front of heating vents, in direct sun light, or in excessively humid of dusty location.
Connect your complementary components as illustrated in the following section.


CAUTION
RISK OF ELECTRIC SHOCK.
DO NOT OPEN.
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK. DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

Caution: To prevent electric shock do not use this (polarized) plug with an extension cord, receptacle or other outlet unless the blades can be fully inserted to prevent blade exposure.

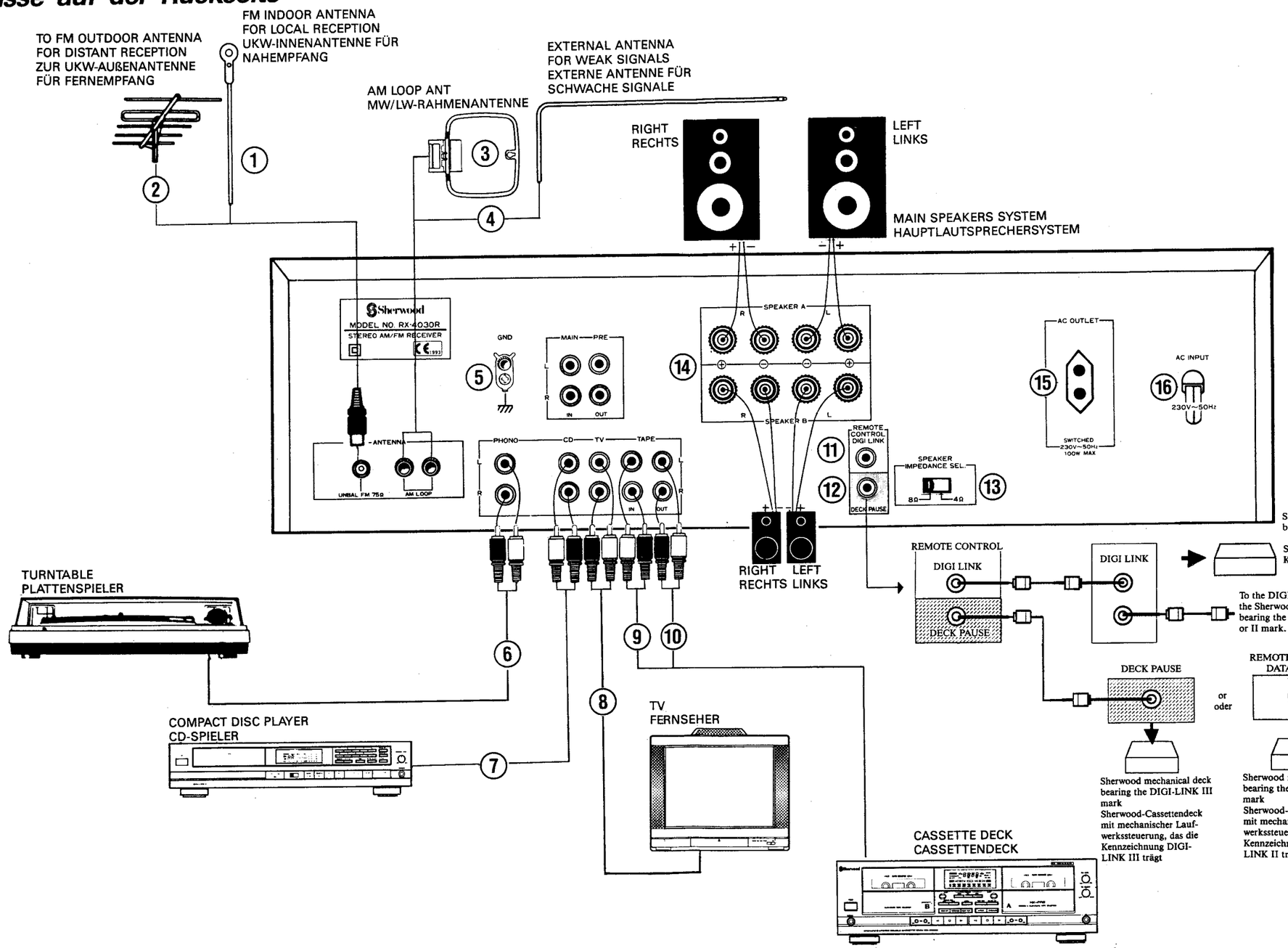
Caution: Do not block ventilation openings or stack other equipment on top.

WARNING

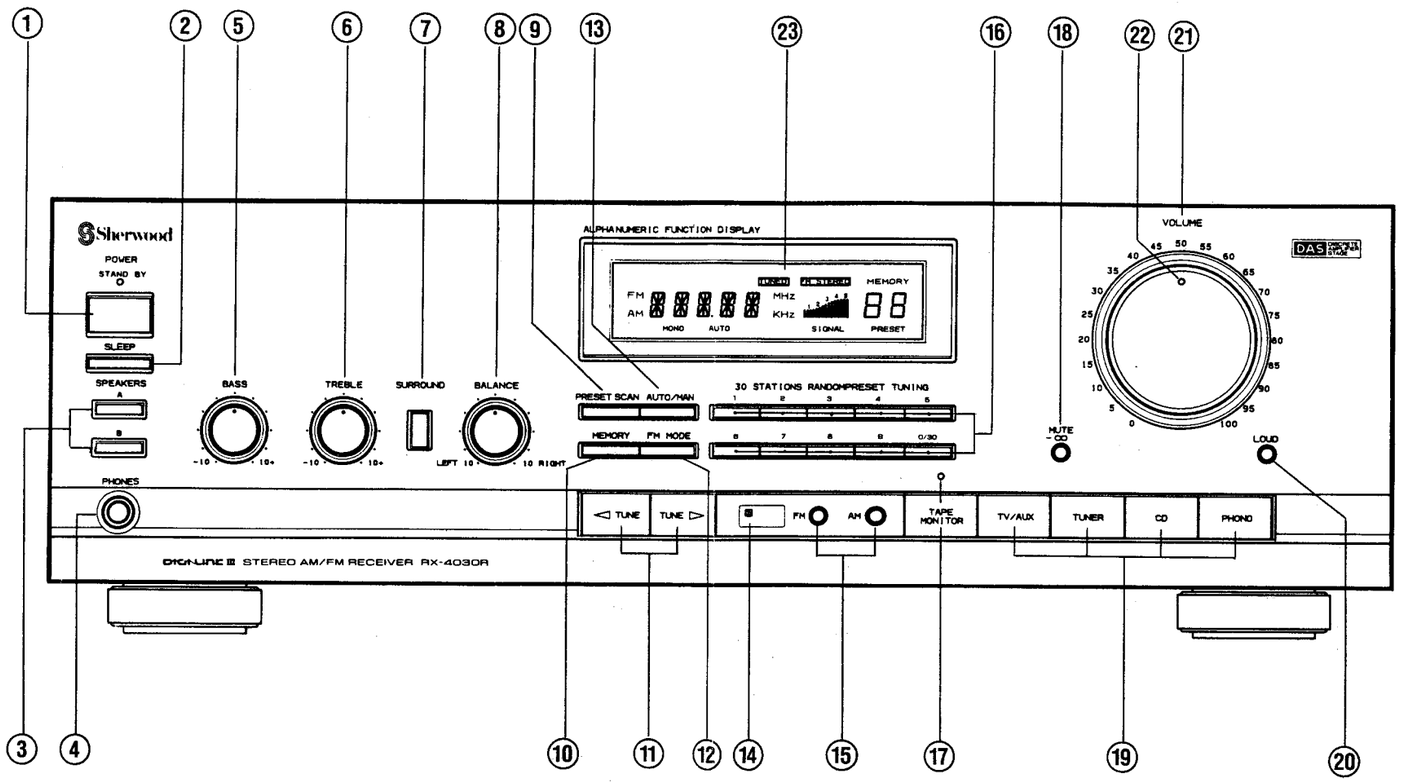
To prevent fire or shock hazard, do not expose the unit to rain or moisture.

Note to CATV System Installer: This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

Rear Panel Connections
Anschlüsse auf der Rückseite



Front Panel Controls
Bedienungselemente auf der Vorderseite



Rear Panel Connections

1. FM INDOOR ANTENNA

Connect the supplied antenna (the wire lead) to the FM antenna terminal, as shown in the Rear Panel Connection Diagram. Change the position of the antenna until you get the best reception of your favorite stations. An outdoor FM antenna may be used to further improve the sound quality of the reception. Disconnect the indoor antenna before replacing it with the outdoor one.

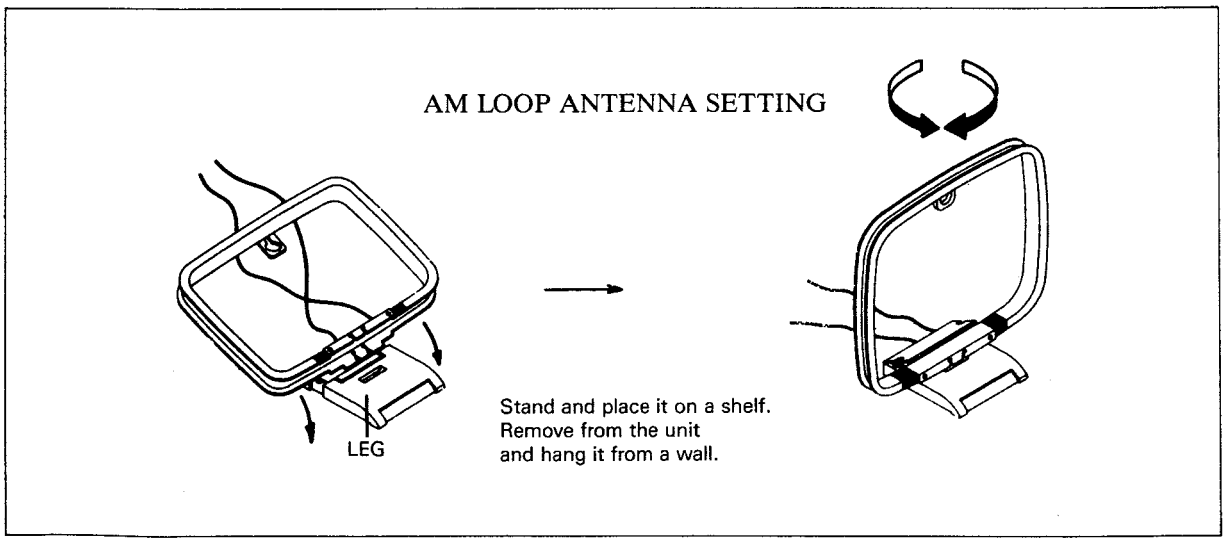
2. FM OUTDOOR ANTENNA

This connector is used for 75 ohms unbalanced coaxial cable connection.

3. AM LOOP ANTENNA

Tune in your favorite AM station and position the loop antenna for best reception. Try other stations and find the position that give best overall reception. When this unit is mounted in a rack or placed on a shelf with insufficient space behind, remove the loop antenna and hang it from a wall in the direction which gives best reception.
If the length of the lead wire is too short, add a lead wire of an appropriate length.

NOTE: To prevent undesired noise, AM LOOP ANTENNA should be located away from the DIGI-LINK cords over 12 inches (30cm).



4. EXTERNAL AM ANTENNA

In ferroconcrete buildings or in areas remote from broadcast stations, the built-in antenna may not prove adequate. To supplement the built-in antenna, connect 10 to 20 feet of insulated, flexible, single conductor wire to this terminal, but this wire should be kept away from all speaker cables and power cables and run in a straight line along a nonmetallic baseboard or under a rug.

5. SYSTEM GROUND TERMINAL

To reduct hum to a minimum, this terminal is used to interconnect the chassis or ground lead of the Turntable to this Receiver. Connect the ground lead from your Turntable to this terminal.

14. SPEAKER TERMINALS: A AND B

The Receiver enables you to listen to two pairs of speakers individually or in various combinations. Connect your main left (L) and right (R) speakers to the corresponding "A" speaker terminals and use "B" speaker terminals for a remote pair located elsewhere in your home. For all speaker connections, make sure that the phasing is correct. L/R terminals on the Receiver must be connected to the plus (+) terminal on the speaker, and likewise G/G terminals for the negative (−) terminal.

15. AC SWITCHED OUTLETS

These outlets provide AC power for other components of your system such as compatible turntable and cassette deck. Power can be switched on and off by the power switch on the front panel or by the remote commander.

NOTE: Do not connect equipment whose power consumption exceed the maximum value shown at each outlets, SWITCHED: TOTAL 100 watts.

16. AC INPUT

Plug the cord set into the wall outlet.

Front Panel Controls

*** Auto Input change**

By pressing the following buttons, you can not only listen to the radio broadcasting, but change the FUNCTION SELECTOR SWITCH of SHERWOOD amplifier bearing the DIGI-LINK III mark automatically without pressing it again. BAND (FM, AM), PRESET Button, PRESET SCAN Button.

1. POWER SWITCH

Press this switch to turn the power on. Press again to turn the power off. It can also be used as the system power switch.

* Automatic Power ON: Refer to the remote control section on page 17.

If no sound comes from either channel after the power is turned on, check whether AC power cord has been accidentally disconnected, SPEAKER switches are incorrectly positioned, TAPE button is set to MONITOR position.

2. SLEEP SWITCH

This function, you can turn off the power automatically in desired time by designation the turn-off time. Press SLEEP button when the power is on. Each time SLEEP is pressed, the designating time is displayed in the following order:

10 minutes → 20 minutes → 30 minutes → 60 minutes → 90 minutes → SLEEP OFF.

NOTE: When the sleep time is set, whole function displays of Sherwood components bearing the DIGI-LINK III mark are dimly lit.

3. SPEAKER SELECTOR SWITCH: A AND B

This switch allows you to select various combinations of speakers as follows;

a. A On : To drive speaker system A
b. B On : To drive speaker system B
c. A, B On : To drive both speaker system A and B
d. A, B Off: For headphones listening

13. TUNING MODE SWITCH (TUNING AUTO & MANUAL)

Determines tuning mode;

- AUTO (AUTO indicator ON); Touch UP/DOWN button automatic tuning is assured until first station is detected.
- MANUAL (AUTO indicator OFF); Tuning is done only if tuning UP/DOWN button is kept pressed.

14. INFRARED REMOTE RECEIVER

This consists of an infrared filtering window and an infrared remote receiver. This receiver receives the pulse code modulated (PCM) infrared signals transmitted by the commander and converts it into the electrical signal to control the system. The infrared filtering window effectively filters out interfering lights to prevent the receiver from responding to the unwanted noise and light. Do not obstruct this window with any material.

15. FM/AM BAND SELECTOR

For selecting desired band in either FM or AM.

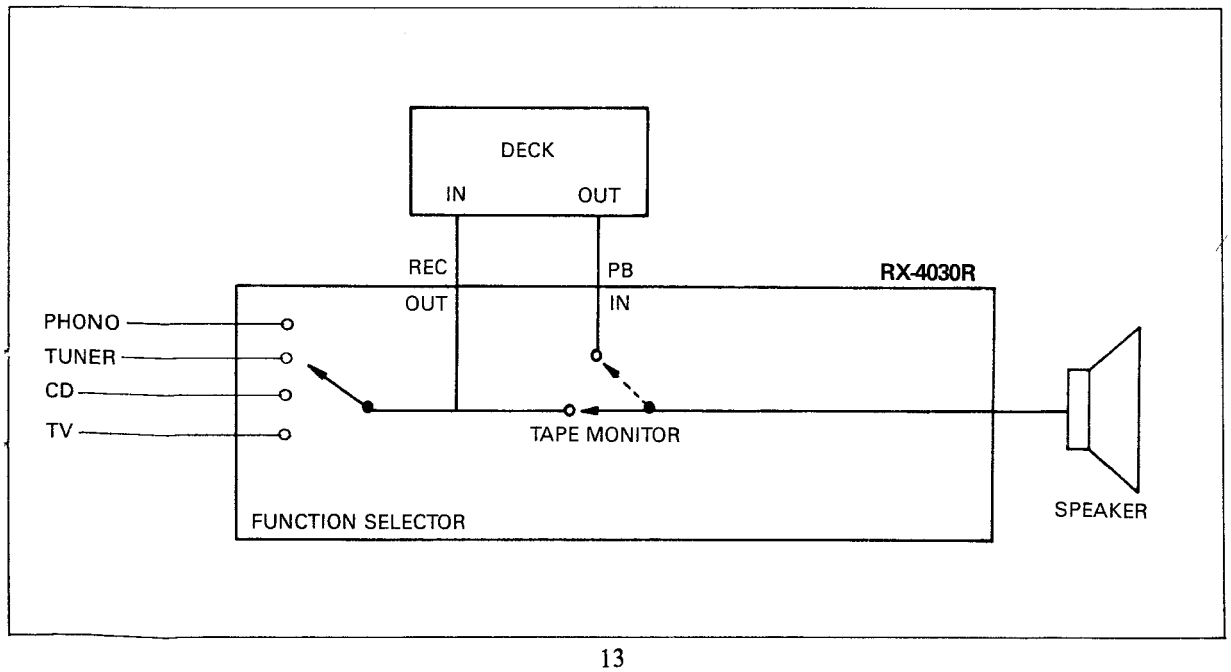
16. STATION PRESET BUTTONS

When these buttons are pressed, the stations stored in memory will be recalled.Press button '3' or '2' and '9' in sequence for preset number '3' or '29'. In case of '1', '2' buttons release each button after more than 2 seconds.

17. TAPE MONITOR BUTTON

- For listening to source selected by the FUNCTION SELECTOR SWITCH, set TAPE function to source position (TAPE indicator don't light up).
- For playback or monitoring of tape deck as a listening source, press and set TAPE button to MONITOR position (TAPE indicator lights up).

NOTE: When each FUNCTION is pressed, TAPE MONITOR is released automatically.



23-C. FM STEREO DISPLAY

This indicator lights up when a FM stereo broadcast is being received. It does not light up when FM MODE ⑫ is set MONO (MUTE off) mode or when a weak FM stereo broadcast is being received.

23-D. MEMORY DISPLAY

When MEMORY button ⑩ is pressed, this indicator flicker for 5 seconds. While this indicator is lit, press the PRESET buttons to store a station in memory.

23-E. MONO DISPLAY

When FM MODE ⑫ is set MONO mode, this indicator lights up.

23-F. AUTO DISPLAY

Lights up when AUTO/MANUAL tuning mode selector switch ⑬ is pressed to set the tuning mode to AUTO. In MANUAL mode, it goes off.

23-G. SIGNAL STRENGTH DISPLAY

Indicates relative signal strength of FM or AM stations. Useful in the orientation of antennas.

23-H. PRESET NUMBER & SLEEP TIME

Displays the preset station number in two digits, up to 30. When SLEEP timer ② is set, this displays remain minutes of timer.

Operating Instructions of Tuner Section

1. Press the tuner button of the band selector FM or AM.
2. Three different ways can then be used for tuning; Automatic tuning, manual tuning and preset tuning.

A. AUTOMATIC TUNING

- When tuning mode (button ⑬) is AUTO, by pressing tuning button ⑪ ('DOWN' or 'UP') once, the selected tuning range is searched step by step until the tuner locates a station of adequate strength, at which it stops. Display indicator ㉓ 'TUNED' lights up. If it is a stereo broadcast, display indicator ㉓ 'FM STEREO' lights up.
- If the station selected is not the one you want, press button ⑪ again. Automatic tuning is then resumed, until another station is located.

NOTE: If the end of a tuning range is reached, tuning stops and begins again from the other end of the tuning range.

- During tuning the audio signal are completely suppressed, in order to prevent any interference from interstation noise.

NOTE: Relatively weak stations are passed over during automatic tuning and can only be selected with manual tuning.

B. MANUAL TUNING

- To help prevent poorly tuned stations being stored in the memory, it is useful to know the exact tuning frequency of the stations received in the area. For this information consult a program magazine or local newspaper.
- Press button ⑪ ('DOWN' or 'UP') repeatedly and briefly with tuning MANUAL mode. This changes the tuning frequency step by step until the correct value is reached. If it is a stereo broadcast, display indicator ㉓ 'FM STEREO' lights up.

NOTE: With powerful stations the 'TUNED' indicator lights up. This does not happen with relatively weak stations. In these cases press button ⑪ briefly again, until reception is optimum.

- If you pass the required frequency; Go back step by step to the desired frequency by briefly and repeatedly pressing the tuning button ⑪ on the opposite side.
- During tuning the audio signals are completely suppressed to prevent any interference from interstation noise.
- If you are tuning to weak FM stations, press button ⑫ 'FM MODE' once; indicator ㉓ 'MONO' lights up the tuner then only plays back in mono and the interstation signal is not suppressed.

C. TUNING TO PRESET STATIONS

- Pre-selected stations can only be tuned if they have been programmed beforehand in the memory.

PROGRAMMING STATIONS

- Tune either automatically or manually to the station to be memorized.
- Press button ⑩ 'MEMORY'. Indicator 'MEMORY' lights up display ㉓.
- Then while indicator 'MEMORY' is lit (5 seconds), quickly press the required pre-selected location '1-30'.

NOTE: Station memory locations 1 to 9 and 30; Press one of the 10 keys.
Station memory locations 10 to 19, 20 to 29; Hold one of the keys 1, 2 depressed (for longer than 2 seconds). 01 or 02 appears on the display. The number of the station memory location is then completed by pressing one of the 10 keys 1 to 0 ⑯. All the other stations are stored in the same manner.

CALLING UP STORED STATIONS

- Select tuning range with selector button 'AM' or 'FM'.
- Press selected '1-30' button. Watch display ㉓. For correct preset number to appear.
- It is possible to change from this pre-selected tuning to manual or automatic tuning without further action.
- A pre-selected station can only be removed from memory by programming another in place of it.

NOTE: The memory back-up circuit maintained by a large capacitor will prevent 2 weeks the programmed information (30 preset stations).

The tuner locates few stations

- Check the antenna connections because of the antenna signals received are too weak.
- Adjust the position of the AM Loop or the FM indoor antenna. If this does not give satisfactory results, consider connection to external antennas or cable network.
- If these are already fitted, check their connection to the tuner.

2. SYSTEM POWER CONTROL BUTTON

Press this button to turn the power on. Press again to turn the power off.

3. 10 KEY PAD

This 10 key pad can be used for preset tuning in tuner mode, selection of track number in CD mode and selection of music program number in TAPE mode;

- Preset tuning: Press TUNER button first to change to TUNER operation and then press the desired preset number like 1, 2, ... 29, 30 for preset tuning (maximum applicable number is 30).
- Selection of CD track number: Press button CD first to change to CD operation and then press the desired track number like 1, 2, ... 98, 99 (maximum applicable number is 99), then playing CD will start immediately.

NOTE: This remote operation is applicable if your compatible compact disc player is Digilink III or II compatible.

- Selection of cassette music program number: If your compatible cassette deck is Digilink III or II compatible, it can be used to program a music number to be played. Press button TAPE MONITOR first to change to cassette deck operation and press button ◀ or ▶ for playing. If you wish to skip the music either forward or reverse direction, press the desired music number to be skipped from the music being played like 1, 2 ..... 19, 20 (maximum applicable number is 20), and then press button ▶▶ or ▶▶.

4. CD FUNCTION BUTTONS

For CD PLAYER: DISC (DISC SELECTOR when using Sherwood CD CHANGER (bearing DIGI-LINK III or II mark), ▶ (play), ▮▮ (pause), ■ (stop), ⏮ (reverse skip), ⏭ (forward skip), REPEAT and RANDOM PLAY.

- When selecting a disc, press the DISC button and the desired disc number (1~5) in the 10 key pad within 2 sec.

5. CASSETTE DECK FUNCTION BUTTONS

- For CASSETTE DECK: ◀ (reverse play), ▶ (forward play), ▮▮ (pause), ■ (stop), ◀◀ (rewind), ▶▶ (fast forward), A, B (Deck Selector when use Sherwood double cassette deck), AMS and RECORD.

NOTE: Remote functions for Sherwood Mechanical DECK (bearing DIGI-LINK III or II mark) is limited to pause only.

6. INPUT SELECTOR BUTTONS

These are the switches for selecting desired program sources. the applicable buttons are PHONO, TUNER, CD, TV and TAPE MONITOR.

7. AMPLIFIER CONTROL BUTTONS

The applicable buttons are VOLUME UP/DOWN, and MUTE.
When the MUTE button is pressed, the volume indicator on the volume control of the front panel will flicker and the sound level will be reduced by −odB. This is very useful when you make or receive phone call while operating the receiver at high listening level. To release muting, press button MUTE again.

8. EQUALIZER CONTROL BUTTONS (For use with Sherwood EQUALIZER bearing DIGI-LINK III or II mark

NOTE: Sherwood EQUALIZERS may not be available in some countries.

- These buttons are equalizer control buttons.
- For these equalizer control functions, refer to compatible units manual.

Troubleshooting

Symptom	Probable Cause	Remedy
No power supplied to unit	• Power plug is disconnected from outlet.	• Insert plug securely in outlet.
No sound	• Connecting cords are disconnected from terminals, or connected incorrectly. • Jacks or connecting cords pin plugs are dirty. • The INPUT SELECTOR switch selected does not match the component being played back. • Tape Monitor switch selected. • Operation of other components is incorrect. • The SPEAKER selector switches are set to 'OFF'.	• Connect securely. • Clean terminals and plugs. • Set switch correctly. • Set the Tape Monitor to OFF. • Consult the operating instructions for the other components. • Set the switches to "A", "B" or "A+B".
No sound at Tuner	• Radio reception not optimum.	• Check the tuning. • Check the connection of the FM auxiliary antenna. • Adjust the position of the FM auxiliary antenna or the AM loop antenna.
No sound from one speaker	• Connecting cords or speaker cords are disconnected on that side. • BALANCE control has been adjusted to one side.	• Connect securely. • Adjust BALANCE control to center position.

Specifications

AMPLIFIER SECTION

Power Output, Continuous RMS with no more than 0.09% THD	
at 8 ohms, 40Hz-20KHz	60W+60W
at 8 ohms, 1KHz	65W+65W
Intermodulation Distortion, 60Hz: 7KHz=4:1 SAMPLE 60W output into 8 ohms	0.08%
Damping Factor at 1KHz, 8 ohms	70
Input Sensitivity for 60W output 8 ohms at 1KHz	
Phono	2.5mV
Linear Inputs	150mV
Phono Input Overload at 1KHz, 0.1% THD	170mV
Signal to Noise Ratio, IHF "A" weighted/unweighted	
Phono	73/68dB
Linear Inputs	95/85dB
Frequency Response	
Phono, RIAA 30-20,000Hz	±0.5dB
Linear Inputs at 1W, −3dB	5Hz-60KHz
Tone Control, BASS at 100Hz, TREBLE at 10KHz	±10dB
Loudness Control	
at 100Hz	+6dB
at 10KHz	+3dB
Channel Separation at Linear Input shorted	
at 100Hz	50dB
at 1KHz	50dB
at 10KHz	40dB

FM SECTION

Tuning Range	87.50-108.00MHz
Scanning Frequency Interval	50KHz
(Auto/Manual)	
Usable Sensitivity IHF at S+N+D/N+D=30dB	11.2dBf
THD at 1KHz, 100% MOD, Mono	0.2%
Stereo	0.4%
Stereo Separation at 1KHz	45dB
Signal to Noise Ratio IHF, Mono	70dB
Stereo	65dB
Frequency Response 20Hz-15KHz	±1.5dB
Audio Output Voltage, 1KHz, 100% Mod	600mV

ENGLISH

AM SECTION

Tuning Range	522-1611KHz
Scanning Frequency Interval (Auto/Manual)	9KHz
Usable Sensitivity IHF at S+N/N=20dB, Loop antenna	500μV/m
Signal to Noise Ratio, 30% Mod ref	45dB
Audio Output Voltage, 400Hz, 80% Mod	500mV

GENERAL

Power Consumption	420W
Unit Dimension (W×H×D)	440×125×325.5mm
Unit Weight	7.2Kg

NOTE: Design and specifications subject to change without notice for improvements.

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